Zaldek Series

Instruction Manual

Wharfedale

BRITAIN'S MOST FAMOUS LOUDSPEAKERS

IMPORTANT SAFETY PRECAUTIONS - PLEASE READ CAREFULLY!

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN!

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Read Instructions: All the safety and operating instructions should be read before the product is operated.

Retain Instructions: The safety and operating instructions should be retained for future reference.

Heed Warnings: All warnings on the product and in the operating instructions should be adhered to.

Follow Instructions: All operating and use instructions should be followed.

Cleaning: Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Attachments: Do not use attachments not recommended by the product manufacturer as they may cause hazards.

Water and Moisture: Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

Accessories: Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

Moving the Product: A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

Ventilation: Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

Power Supply Cords: Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

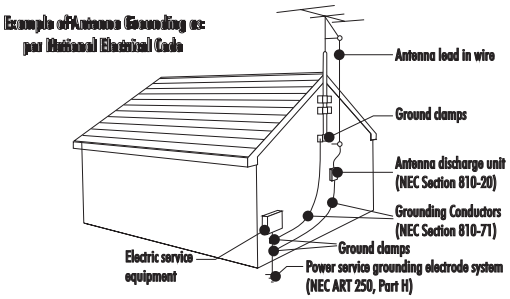
Power Sources: This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product's dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

Polarisation: This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Lightning: For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

Antenna Grounding: If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. (Refer to diagram)

Power Lines: An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.


Example of Antenna Grounding as per National Electrical Code
Antenna lead in wire
Ground clamps
Antenna discharge unit (NEC Section 810-20)
Grounding Conductors (NEC Section 810-71)
Ground clamps
Power service grounding electrode system (NEC ART 250, Part H)
Electric service equipment

Overloading: Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

Object and Liquid Entry: Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

Heat: The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Servicing: Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Damage Requiring Service: Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a) When the power supply cord or plug is damaged.

b) If liquid has been spilled, or objects have fallen into the product.

c) If the product has been exposed to rain or water.

d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

e) If the product has been dropped or damaged in any way.

f) When the product exhibits a distinct change in performance - this indicates a need for service.

Replacement Parts: When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

Safety Check: Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

Preliminaries

SOME IMPORTANT DO'S AND DON'TS

WARNING: To reduce the risk of fire or electrical shock do not expose the product to rain or moisture. The product must not be exposed to dripping and splashing and no object filled with liquids such as a vase of flowers should be placed on the product.

DO NOT allow foreign objects to fall into any of the units.

NO naked flame sources, such as candles must be placed on the product.

NEVER remove any components and refer all servicing to qualified personnel. This product contains no user serviceable parts.

DO NOT make or change any connections to your any part of your system unless the entire system with all source components is switched off at the mains.

DO NOT use your amplifier at its maximum volume setting. The resulting high levels of distortion may damage your loudspeakers.

DO turn down the volume control on your amplifier or receiver before turning the equipment on or off.

WALL OR CEILING MOUNTING: The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

AVOID trailing cables across open floors where they can be a source of danger. Route cables under carpets or along room boundaries.

ESSENTIAL INFORMATION FOR UK USERS

The mains lead on your Zaldek sub bass unit may be supplied with a plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA or BSI approved BS1362 fuse must be used of the same rating. If the plug is cut off it must NOT be re-used. Dispose of any such plug safely. There is a danger of electric shock if a cut-off plug is inserted into a mains socket.

The wires in the mains lead are coloured in accordance with the following code:

Green and Yellow - Earth: Blue - Neutral: Brown - Live.

As the colours of the wires in the mains lead may not correspond with the markings identifying the terminals in the replacement mains plug, proceed as follows:

The wire coloured Blue must be connected to the terminal marked with the letter "N" or coloured Black. The wire coloured Brown must be connected to the terminal marked with the letter "L" or coloured Red.The wire coloured Green and Yellow must be connected to the terminal marked with the letter 'E',or coloured Green, or Green and Yellow, or marked with the Earth symbol ⏚

Zaldek Series User Manual

INTRODUCTION

The Wharfedale Zaldek Series is a range of versatile loudspeakers using advanced materialsand the latest precision manufacturing techniques. The range features bookshelf and floor-standing models. For Home Theatre applications, matching surround and centre channel loudspeakers and a powered sub bass unit may be added . Thank you for your confidence in purchasing Wharfedale. We hope that your loudspeakers will give you a rewarding listening experience for many years .

Please read all the instructions carefully and in full before installing your Wharfedale loudspeakers.

Before making connections to any part of your sound system make sure the amplifier and all connected sources are switched off.

When you switch on your system or change sources, set the volume control to minimum and turn up the level gradually.

DO NOT use your amplifier at full volume. The position of the Volume Control is NOT a reliable guide as to the maximum volume level or capabilities of your sound system. Playing the system with extreme high settings of volume and tone controls will result in distorted sound and may damage the amplifier and loudspeakers.

DO NOT connect loudspeaker terminals to the mains supply.

Ensure that all loudspeakers in the system are correctly wired and are in phase.

PRELIMINARIES

Carefully remove each loudspeaker from its packing carton. Be especially careful when removing the polythene bag. DO NOT attempt to lift the loudspeaker by the polythene bag. Retain the packing for future use. If you decide to dispose of the packing, please do so safely.

Fitting Spikes (Zaldek 300, 600, 1000, 2000): Carefully invert each loudspeaker. Protect the top surface from scratches or damage when the loudspeaker is inverted . In the packing carton you will find the spike assemblies. Screw a spike into each of the four pre-drilled locations on the base of the loudspeaker. Return the loudspeaker to its normal position taking care not to cause damage with the spikes. Adjust the height of the spikes so that the speakers are stable. The top surfaces of the loudspeaker should be level and the same height above the floor.

When moving speakers, be careful not to let the spikes pierce objects, or cables which may be concealed under the carpet. Never drag the loudspeakers. If you cannot lift them easily, get someone to assist you.

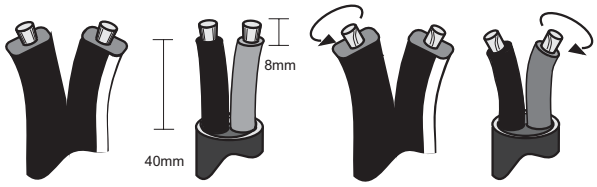
Zaldek Centre Loudspeaker: A set of self adhesive pads is provided. Peel off the backing material and fix a pad at each corner of the bottom surface of the loudspeaker.

Zaldek Surround Loudspeaker: Four self adhesive spacers are provided. Peel off the backing material and fix a spacer at each corner of the rear surface of the loudspeaker.

CHOOSING AND PREPARING CABLES

Cable designed for audio applications will usually offer better performance than general purpose 'bell' or 'zip' wire. Choose a cable of suitable diameter - cable that is too thin will limit the dynamics of the sound and may impair the bass response. Audio cable is polarised, with two cores of different colours, or often a coloured tracer in the case of twin cable.

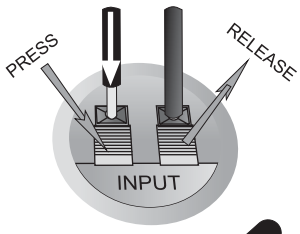
Split the twin cores to a depth of about 40mm. Carefully strip the insulation from each end, leaving about 8mm of bare wire. If the cable is stranded, lightly twist to gather any loose strands.



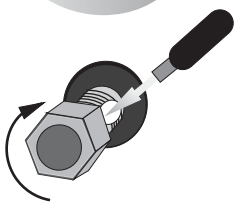
CROSSOVER NETWORKS AND TERMINALS

The Zaldek Sub Bass uses twin screw terminals. The other loudspeakers in the Zaldek range use powerful spring terminals.

Spring Terminals: When a lever is pressed a hole appears in the terminal into which the wire can be pushed. When the lever is released the wire is held firm. Ensure that the terminal grips the bare wire at the end of the cable, not the insulation.



Screw Terminals: Unscrew the terminal. Thread the bared end of each cable through the hole in the bottom of the terminal post. Retighten the terminal securely.

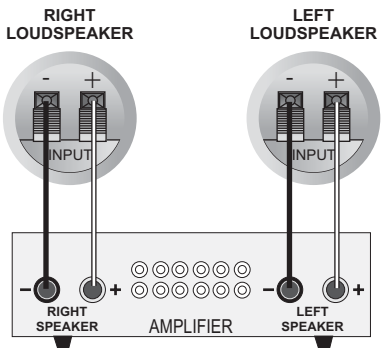


Make sure that in all cases the Red speaker terminal is wired to the Red (+) amplifier output terminal and the Black speaker terminal is wired to the Black (-) amplifier output terminal. Ensure that there are no loose strands which may touch adjacent terminals.

Connecting and Positioning the Front Loudspeakers

CONNECTING YOUR LOUDSPEAKERS

Select two suitable lengths of twin core speaker cable, of roughly the same length and prepare them as described. Avoid having one cable extremely short and one extremely long as this may unbalance the bass, especially on heavy passages.



Connect the Left loudspeaker to the Left Speaker output of the amplifier. Make sure that the Red, Positive (+) terminal of the loudspeaker connects to the Red, Positive, (+) terminal of the amplifier. Connect the Black, Negative (-) terminal of the loudspeaker to the Black, Negative (-) terminal of the amplifier.Now connect the Right loudspeaker to the Right Speaker output of the amplifier following the same procedure.

If your loudspeaker cable is polarised with a stripe or raised edge on one conductor, it helps to use the wire with the marking to connect to the Red, Positive terminals in all cases. This will assist you to connect the loudspeakers properly and in phase.

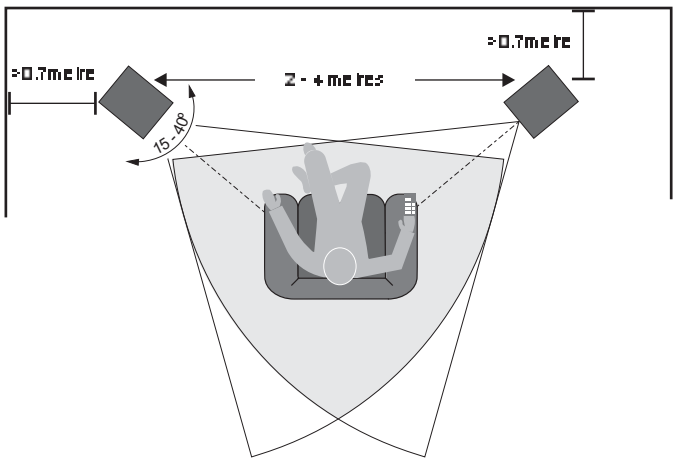
POSITIONING YOUR LOUDSPEAKERS

The Zaldek Series is designed to be either Floor standing or shelf or stand mounted. For the Zaldek 300 and 600 stand mounting is advisable. The Zaldek 1000 may be stand or floor mounted., while the Zaldek 2000 is a dedicated floor mounting design. If the speakers are wall mounted they should be on a sturdy bracket which supports the underside of the loudspeaker and is firmly attached to the wall.

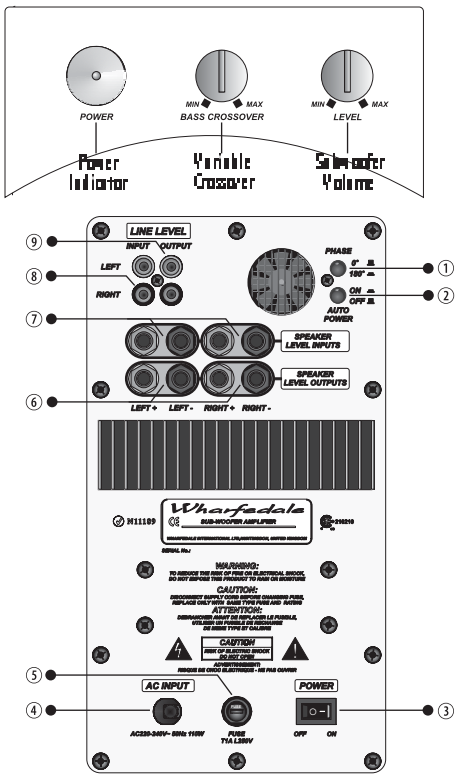
Placing loudspeakers closer to the floor will increase the bass output but if the floor is suspended the bass may boom and become overpowering. If the loudspeakers are placed too close to the walls the bass will increase but may be boomy and indistinct. We suggest that they are positioned at least 300mm from the rear walls and 700mm from the side walls, facing slightly inwards. If the loudspeakers are placed further away from the walls, the inward angle may be increased by up to 40%, although this may restrict the width of the optimum listening position. The orientation of the midrange and treble horns is such that there will be a great deal of height information, but this toe in angle should be carefully adjusted for optimum results.(Refer to the diagram below).

The loudspeakers should be operated at a height where the treble horn is at ear level to a seated listener though the large vertical dispersion of the midrange and treble horn means that this is not critical. As personal taste plays a large role please experiment with different configurations and play a wide range of programmes before finalising the position of your speakers.

NOTE: When finalising your loudspeakers' position be aware that they should not be in positions where they could be knocked over or cause danger to children or pets.



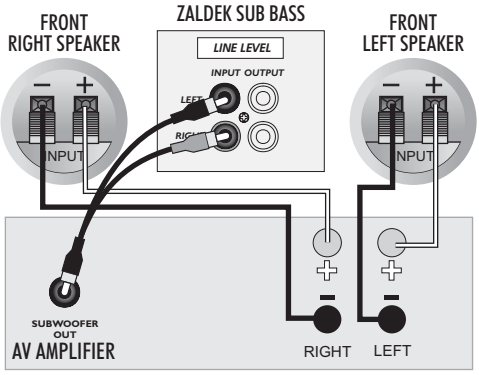
Zaldek Sub Bass Front & Rear Panel Views



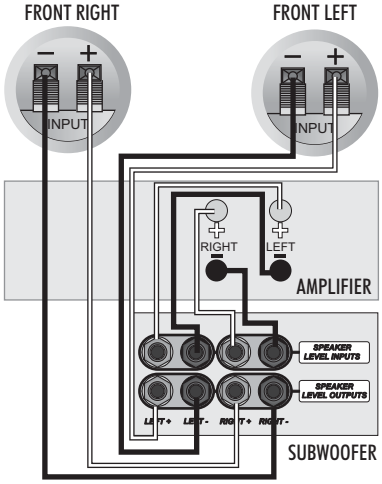
REAR PANEL CONNECTIONS

1. Phase Control Switch
2. Auto Power Switch
3. Power On-Off Switch
4. Mains Cable
5. Mains Fuse
6. Speaker Level Outputs
7. Speaker Level Inputs
8. Line Level Inputs
9. Line Level Outputs

Connecting to a Subwoofer Line Output



Connecting to Loudspeaker Terminals



Zaldek Sub Bass Loudspeaker

The Zaldek powered sub-bass unit uses a long throw 250mm bass motor and a powerful100 Watt amplifier.

POWER CONNECTIONS

This unit is set to the mains voltage marked on the amplifier panel. Before connecting check that this voltage is correct for your mains supply.

230 volt units: 220 - 240 VAC 115 volt units: 110 - 120VAC

If you move to an area with a different mains supply, please consult your Wharfedale dealer to arrange the conversion of this product.

The power cord can be left connected but it should be unplugged if the subwoofer is not going to be used for long periods.

CAUTION (115 volt products only). TO PREVENT ELECTRIC SHOCK MATCH THE WIDE BLADE OF THE PLUG TO THE WIDE SLOT OF THE POWER OUTLET AND FULLY INSERT THE PLUG.

SUBWOOFER LINE CONNECTIONS

If your amplifier or AV processor has a line level subwoofer output you should always use this connection. You will need a 'split mono' screened RCA phono lead which is not supplied but can be purchased from your dealer.

As an alternative to a split mono lead, connect a single mono lead from the Subwoofer output of the processor to the Left line input of the Zaldek Subwoofer. In this case the input level to the subwoofer will be slightly lower.

SPEAKER LEVEL CONNECTIONS

If your amplifier does *not* have a line level subwoofer output, you will need to feed the subwoofer together with the Front loudspeakers. For this you will need two extra twin core cables.

The Speaker Level connectors are screw terminals Unscrew each terminal to expose the mounting hole at the base of the terminal . Insert the bared end of the cable into the hole and re-tighten the terminal securely. Ensure there are no loose strands.

There are two methods of connecting the subwoofer.

A If the Front loudspeakers are already connected, disconnect these cables at the amplifier. Using one of the additional twin core cables, connect the Left Speaker Input Terminals on the sub bass unit to the main Left speaker terminals on the amplifier. Connect the Red (+) speaker terminal on the amplifier to the Red (+) terminal on the subwoofer. Connect the Black (-) speaker terminal on the amplifier to the Black (-) terminal on the subwoofer. With the other additional cable, connect the Right Speaker Input terminals on the sub bass unit to the Front Right speaker terminals on the amplifier.

Connect the Left loudspeaker to the Left Speaker Output terminals on the sub bass unit. Connect the Right loudspeaker to the Right Speaker Output terminals on the sub bass unit. Follow the colour coding as described above.

B Using an extra cable per channel, connect the subwoofer to the Front speakers which should in turn be connected to the amplifier. Follow the colour coding as described above.

STEREO CONNECTIONS

If your amplifier has a suitable line output controlled by the master volume control (i.e. *not* a tape output), use the connection shown. You will need a stereo RCA phono cable.

If you use a stereo pre and power amplifier, or an amplifier where the pre and main amplifier can be separated, connect the subwoofer as shown. You will need two stereo screened RCA phono cables.

To do this, first remove the Pre Out-Main In links as necessary. Next, connect one RCA cable from the Pre Out Sockets on the amplifier to the Line Level Inputs on the subwoofer. Connect a second cable from the Line Level Outputs of the subwoofer to the Main In sockets of the amplifier. Do not mix up Right and Left!

USING TWO SUBWOOFERS

The figures illustrate some suggestions for wiring two subwoofers. If you need further information consult your dealer for advice.

POSITIONING THE UNIT

Although the unit may be placed almost anywhere in the room, even behind the sofa or the TV set, we recommend that it be placed in front of the listener and as central to the listening position as possible. As the subwoofer is a powered unit there should be a mains outlet within easy reach.

When installing the unit allow least 450mm between the subwoofer and the TV or the colours on the screen may be disturbed. If this occurs, switch off the TV set and subwoofer and move the subwoofer away. Switch on again after 15 minutes. The circuits of the TV set should restore normal colour.

We suggest you position the subwoofer about 20cm from the wall. Placing the unit close to the wall will enhance the bass; placing it across the corner of the room will increase the bass further, possibly at the expense of clarity. Experiment with a variety of locations and sources before making a final decision.

Do not place the subwoofer close to surfaces or objects that may rattle. The floor under the subwoofer should be sound with no loose floorboards, etc.

INITIAL SETTING-UP AND OPERATION

Check that all system connections are correct. Set the Subwoofer Level Control to minimum and the Power switch to OFF. Connect the power lead of the subwoofer to the mains.

Switch on the power to the subwoofer and check that the Status Indicator on the front panel glows. Connect the power to the rest of the system. The system is now operational.

SUBWOOFER LEVEL CONTROL

The Level control is located on the front panel. Set this control initially at midway (12 o'clock). When the other controls have been set, this can be re-adjusted if needed. Do not set too high a level or the sound will be bass heavy.

VARIABLE BASS CROSSVER

The Bass Crossover control on the front panel integrates the subwoofer with the main loudspeakers. Set this initially at 9 o'clock for large floor standing speakers and 2 o'clock for bookshelf units. The can be fined tuned by listening to the overall sound and adjusting the bass to a suitable level.

PHASE SWITCH

Use this control if there is insufficient bass output from the subwoofer. Listen carefully to some music with extended bass and switch the Phase switch in and out. Select the position which produces the most bass, as judged from the listening position.

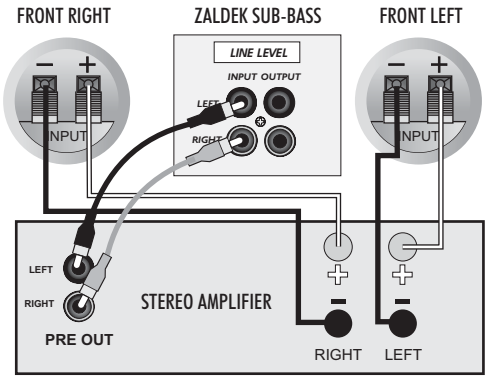
AUTO POWER SWITCH

Depress the Auto Power switch to select this facility and release the switch to defeat it.

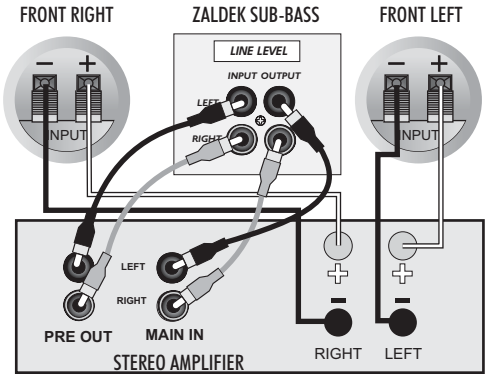
In Autopower mode the subwoofer will switch itself to Standby when there is no audio signal. When the subwoofer detects a signal it will switch on. If there is no signal present, after about 30 seconds it will go to Standby. The Status Indicator on the front panel glows yellow in Standby and red when operational.

Zaldek Series Instruction Manual

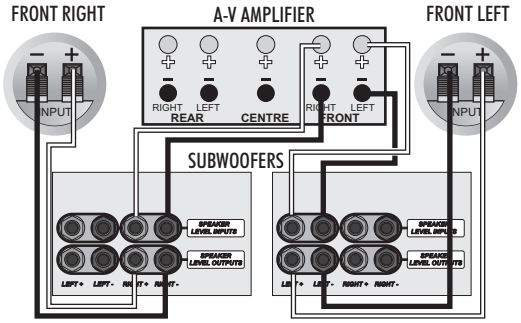
Connecting to a Stereo Line Level Output

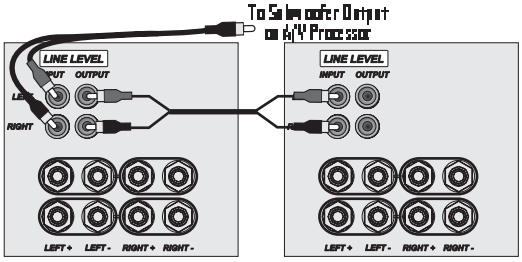


Pre Out - Main In Line Level Connections

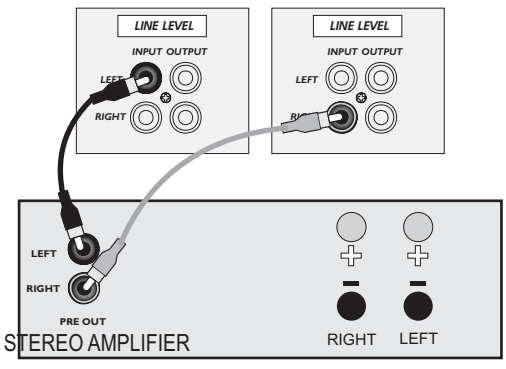


Connecting two Sub Bass Units

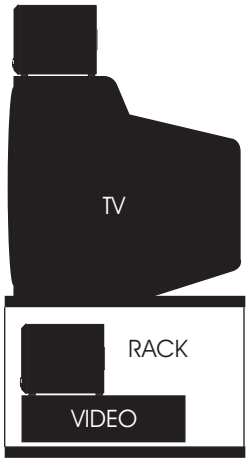




Stereo Line Level Connections



Zaldek Centre Loudspeaker



Four self adhesive feet are supplied with the Centre loudspeaker. Apply one at each corner of the cabinet.

The Centre Channel unit should be placed above or below the screen as shown. In turn, the television should be positioned centrally between the front loudspeakers.

We recommend that the unit is mounted on top of the television and placed so that the front grille is level with or slightly in front of the screen. This will reduce sound reflections from the top of the TV cabinet.

The loudspeaker should be located on a stable flat surface to prevent the cabinet moving at high sound levels.

CONNECTION

You will need a single length of twin core cable. Connect the red (+) terminal of the centre unit to the red (+) terminal of the amplifier's centre channel output. Connect the Black (-) terminal of the centre unit to the corresponding Black (-) terminal of the amplifier. (See the diagram below)

Zaldek Surround Loudspeakers

The Zaldek surround speakers use twin midrange and treble horns for wide, uniform dispersion. They are designed primarily for wall mounting and intended for use solely as rear effects speakers.

In a Home Theatre system the rear channels provide ambience and rear perspective. To aid this effect we recommend placing the Zaldek surround speakers in a high position behind the listener on the rear wall. Exceptionally, the side walls may be used. (See P 4)

CONNECTIONS

You will need one length of twin core cable per speaker. Connect the red (+) terminal of the left rear unit to the red (+) terminal of the amplifier's left rear channel output. Connect the Black (-) terminal of this unit to the corresponding Black (-) terminal of the amplifier. Repeat for the Right speaker.(see the diagram below).

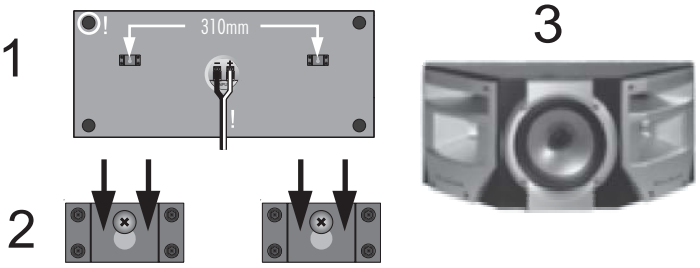
MOUNTING PROCEDURE

Each speaker is supplied with four self-adhesive feet. Apply one to each rear corner. Now connect a cable to each speaker.

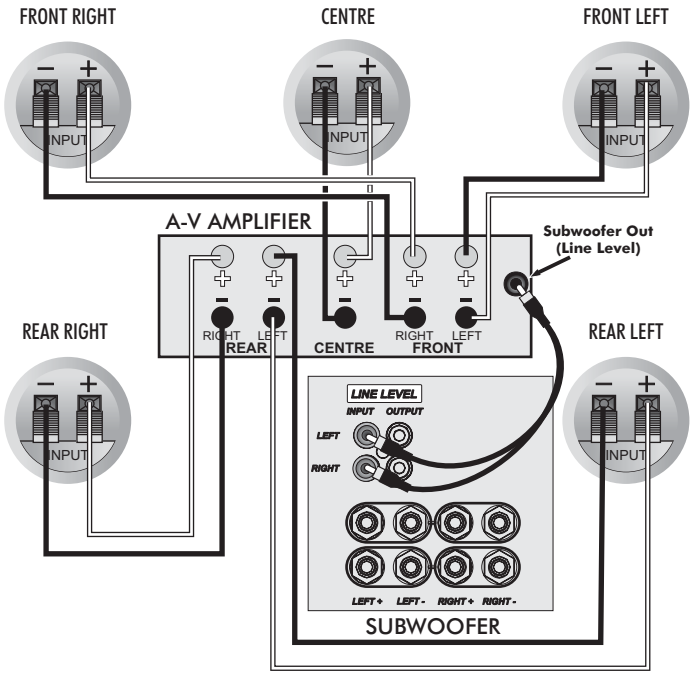
Site the speakers about 600 mm above the listening position and 2.5-3.5 metres apart, central to the listener and behind the listening position. If you use the side walls, the speakers should be in line facing each other, and behind the listening seat. (see P 4).

Ensure that the wall is sound and can support the product. Drill two 5mm holes in the wall 310mm apart. Fix a suitable No 8 round head screw firmly into each hole using appropriate wall plugs. Leave a stub of 5mm protruding from the wall. Align the mounting brackets over the screws and lower the unit onto the screws. The speaker should now be securely attached with the spacers resting against the wall. Now connect the speakers to the amplifier.

Wall-mounting Zaldek Surround Loudspeakers



Typical Home Theatre Loudspeaker System Connections



The Home Theatre Environment

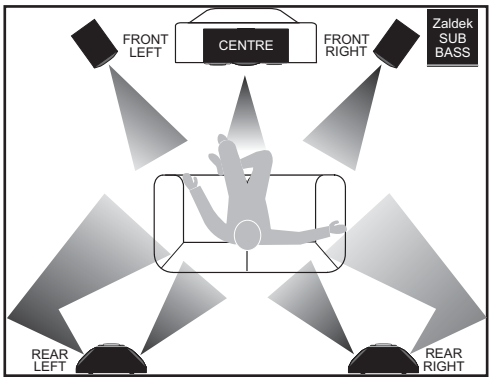
The 'voicing' of each Zaldek loudspeaker has been designed to match the others - there is a sonic identity across all the models in the range. Dispersion characteristics have also been taken into account. The result is a range of versatile loudspeakers that can be used for traditional Stereo reproduction but are equally at home in Home Theatre applications.

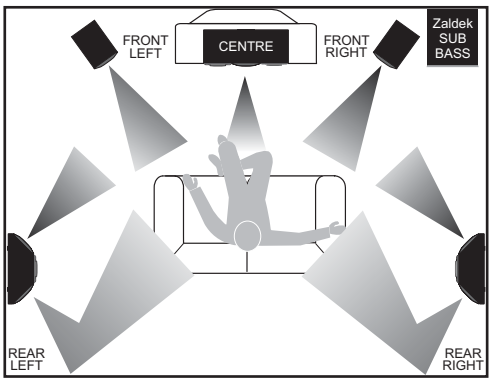
CHOOSING FRONT AND REAR CHANNEL LOUDSPEAKERS

Consider carefully your choice of Front loudspeakers, especially if you are not going to use a separate powered sub bass unit. Alhough the Zaldek 300 and 600 will perform well as front loudspeakers especially in a smaller system, we would advise you to consider one of the larger floor standing units, especially if you own a Digital processor.

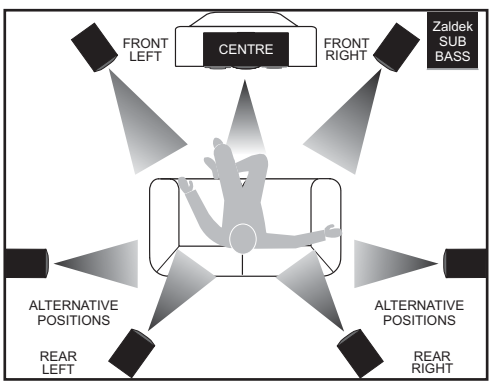
You may use any regular loudspeakers in the Zaldek series for the Rear channels but we strongly recommend that you use the specially designed Zaldek Surround loudspeaker. If you *do* use conventional units, this is perhaps best accomplished with a pair of bookshelf models placed on high stands or wall mounted on suitable swivel brackets.

System using Zaldek Surround speakers





System using conventional rear speakers



Home Theatre Guidelines

FRONT CHANNELS

The front channel loudspeakers are placed on either side of the television screen, 2 to 3 metres apart. The speakers should be angled slightly so they are aimed towards the listeners.

REAR CHANNELS

As these are the 'effects' channels the reproduced sound should be as room filling as possible. To aid this we recommend placing the speakers in a high position, slightly behind the listener's head. Angled towards the listener and positioned high, the rear speakers give a good rear perspective combined with a diffused sound field. Two possible placements are indicated in the diagrams.

Note: If the rear wall is more than 1 metre behind the listening seat, position the units on the side walls. If the side or rear walls are inconveniently located, you could consider stand mounting the loudspeakers.

CENTRE CHANNEL

Most of the dialogue comes from the centre loudspeaker. This ensures that the speech appears to originate from the actors' mouths, not displaced to either side.

The operating height of the speakers is important. For best results the front and centre channel speakers should be operated at the same height if possible. For this reason the centre channel speaker should be operated on top of the television monitor. Placing the centre loudspeaker under the television screen is definitely second best.

Ideally the front faces of the centre and surround loudspeakers should be in line though this may not be practicable in all cases.

SUBWOOFER

As the ear is unable to detect the direction from which deep bass originates, this allows freedom in positioning the subwoofer. Varying the distance from the wall will alter the amount of bass, the level increasing as the unit is moved closer to the wall. Some prefer to place the subwoofer against a corner of the room. This arrangement gives more bass at the possible expense of clarity. Remember to place the subwoofer no closer than 450mm from the television screen or you may cause distortion in the picture.

SETTING LOUDSPEAKER SIZES

Many digital AV Processors require you to specify the size of speakers in all channels. These are usually 'Large' or 'Small'.

Always choose 'Small' for the Surround channels and Centre channel whether you are using a subwoofer or not.

If you are not using a subwoofer: Set the Front Speakers to 'Large'. Set the 'Subwoofer' option on the processor to 'Off' or 'No'. The Front channels will now receive all the system bass.

If you are using a subwoofer: If you set the speakers to 'Small' the low bass content of the front channels will be directed to the subwoofer, along with the bass from the Rear and Centre Channels. In other words all the system bass will go into the subwoofer. If you choose 'Large' the Front channel bass will be reproduced from the Front speakers. Bookshelf speakers (Zaldek 300) should be set to 'Small', large floor standing units (Zaldek 2000) may be set to 'Large'.

Refer to your AV processor handbook for detailed guidance.

SETTING LEVELS

Once the loudspeaker settings have been finalised, put the AV amplifier into its "Test" mode (see instructions supplied with your processor). Adjust the level of each channel in turn until all channels are reproduced at equal loudness.

NOTE: On some programme material the surround channel may seem lower than the front. Do not readjust this level.

You may, however, need to adjust the subwoofer output level. Avoid setting too high a level or you will swamp the sound with bass which be tiring to listen to and may limit the subwoofer's ability to respond to large bass transients. Set a sensible level going into the subwoofer from the AV processor. The volume control on the subwoofer should be between 12 o'clock and 3 o'clock when the system as a whole is playing moderately loud.

DELAY SETTINGS

Many AV processors feature delay settings. The purpose of delay is to enable surround and dialogue information to arrive at the listener's ears at the same time as the Front channels, even when the listening seat is in a non-ideal position.

Rear Delay: If the listening position is equidistant from the Front and Rear speakers, the delay should be set to a low setting. If the listener is closer to the Rear speakers the delay settings should be increased; the further away the listener is from the front speakers, the higher will be the setting needed.

Centre Delay: If the Centre loudspeaker is level with (or slightly behind) the Front speakers, set the delay to minimum. If the Centre speaker is forward of the Front speakers increase the delay.

LFE

In the cinema the Low Frequency Effects channel is an *additional* bass channel with its own dedicated subwoofer and *not* a regular subwoofer channel. In domestic Home Theatre systems the LFE channel typically feeds into the subwoofer. Where no subwoofer is used, the LFE signal is combined with Front Channel information. When you set the LFE level at your AV processor, use care as the LFE channel may contain powerful low frequencies which can overload a domestic loudspeaker.
If you hear popping or thumping noises coming from the front loudspeakers or subwoofer, immediately turn the AV Processor's volume level down and then back off the LFE level. This should cure the problem. If it does not, back off the volume level at the subwoofer (if you are using one) until the problem disappears.

Please read the relevant sections of your AV amplifier manual and familiarise yourself with the various issues. If you are unsure, consult your dealer for help.

PHASE

A correctly connected Home Theatre system has a precise front stage, a diffuse rear stage and good localisation of dialogue which should appear from the mouths of the actors. If the colours on the loudspeaker terminals do not correspond with those on the amplifier, the sound will appear poorly focussed or 'out of phase'. For this reason it is extremely important that the speakers are connected strictly in accordance with the wiring diagrams in this manual.

SUBWOOFER MAINS OPERATION

We recommended that you switch off the Zaldek sub bass unit when the system is not in use, to protect it from switching noises from domestic appliances, etc. The auto switch off is adequate for short periods but if the system is not to be used for some time - switch it off.
Switching the complete system from a central point will avoid you having to switch on the subwoofer when you want to play the system. Remember to turn the main volume control to minimum whenever you switch the equipment on or off.

CARE AND MAINTENANCE

If you play the speakers with the grilles off exercise great care. NEVER touch the drive units which are easily damaged.

The loudspeaker cabinets can be cleaned with a damp cloth or with a spray furniture polish and a soft cloth. Apply the spray sparingly to the cloth and then polish the cabinet. Never apply spray directly to the cabinet.

GUARANTEE & SERVICE

In the unlikely even that your unit develops a fault you should return it to your Wharfedale dealer using the original packing to ensure safe shipping.

The terms of your guarantee may vary in different countries but in all cases the guarantee excludes:

All damage caused through accident, misuse, wear and tear, neglect, incorrect installation, adjustment or repair by unauthorised personnel.

Liability for damage or loss occurring in transit to or from the purchaser.

Wharfedale will not be liable for any consequential damage, loss or injury, arising from or in conjunction with this equipment.

CONCLUSION

The Zaldek series just one of an extensive and world-acclaimed range of loudspeakers from Wharfedale, one of the world's oldest and most distinguished loudspeaker manufacturers.

Thank you for the confidence you have shown in Wharfedale by purchasing this product. We hope it will bring you and yours many years of listening pleasure.

Troubleshooting

If your system appears not to be working as well as you expect, the following notes may be of some help.

Before investigating the cause of a problem, always switch off the system at the mains.

Please bear in mind that Home Theatre systems can be quite complex and there is often a variety of factors involved.

Please read this manual together with all the manuals concerning the rest of your system.

If, having attempted to resolve the problem, the trouble still persists, consult your dealer for assistance.

Do NOT try to remove any covers on the product or attempt to dismantle it in any way. There are no user serviceable parts inside and you will invalidate any warranty.

Symptom	Possible Cause
No Sound	System not switched on Wrong source selected
Sound lacks bass content Bass reproduction muddy or indistinct	Stereo CD is played on DVD player with system in 5.1 mode Loudspeakers wired incorrectly
Excessive bass distortion at low volume levels	Subwoofer level set too high
Excessive or distorted bass at high volume levels	System level set too high Subwoofer too close to room corners
Distorted or rattling sounds at high volume levels	System level set too high Objects placed on subwoofer
Popping sounds or thumps from the subwoofer	System level set too high Subwoofer level set too high
Indistinct sound Poor localisation of effects	One or more loudspeakers is out of phase (See the relevant pages of this manual for the correct connection procedure)
Television picture is distorted or there is colour distortion	Subwoofer is too close to the TV. (Switch off the system and TV. Move subwoofer away. Leave 15 mins. Switch on again)

Further help and advice

A wide range of AV and audio topics can be found at the Wharfedale web site.

www.wharfedale.co.uk

Home Theatre is discussed in depth at the Dolby Laboratories web site.

www.dolby.com

The Digital Theater Systems web site is also full of interest and worth a visit.

www.dtsonline.com

Specifications and Service

	Zaldek 300	Zaldek 600	Zaldek 1000	Zaldek 2000	Zaldek Centre	Zaldek Surround
Nominal Impedance	6 Ohms	6 Ohms	6 Ohms	6 Ohms	6 Ohms	6 Ohms
Recommended Amplifier Power	25-125 Watts	25 -125 Watts	25 -150 Watts	30 -250 Watts	25 -150 Watts	25 - 125 Watts
Sensitivity (1W@1m)	88 dB	88 dB	90 dB	91 dB	90 dB	87 dB
Frequency Response	45 - 29 kHz	40 - 29 kHz	35 - 23 kHz	30 - 23 kHz	70 - 29 kHz	75 - 29 kHz
Bass Unit	170 mm	170 mm	200 mm	2 x 200 mm	2 x 170 mm	170 mm
Midrange Unit	Horn Loaded	Horn Loaded	Horn Loaded	Horn Loaded	Horn Loaded	2 x Horn
Treble Unit	Horn Loaded	Horn Loaded	Horn Loaded	Horn Loaded	Horn Loaded	2 x Horn
Dimensions Overall						
H x W x D mm	435 x 200 x 305	650 x 200 x 305	750 x 230 x 320	990 x 230 x 320	215 x 596 x 260	215 x 495 x 210
H x W x D inches	17.1 x 7.9 x 12.0	25.6 x 7.9 x 12.0	29.5 x 9.0 x 12.6	38.9 x 9.0 x 12.6	8.5 x 23.5 x 10.2	8.5 x 19.5 x 8.3

Wharfedale Zaldek speakers are compatible with 4 and 8 Ohm amplifiers

	Zaldek Sub Bass
Line Input Sensitivity	250 mV for 75 W
Amplifier Power	100 Watts
Maximum Output (at 1m)	107 dB (AVG.)
LF Response (boundary)	28 Hz
Crossover Range	70 - 170 Hz
Drive Unit	250 mm
Dimensions Overall	
H x W x D mm	390 x 368 x 385
H x W x D inches	15.4 x 14.5 x 15.2

Authorised Wharfedale Service Centres

UK

Wharfedale International Ltd.
IAG House, Sovereign Court,
Ermine Business Park,
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180 Kerry Place
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MA 02062
Tel: +1 781 440 0888

CANADA

Korbon Trading Ltd
6800 Kitimat Road
Units 19-20
Mississauga
Ontario
Tel: +1 905 567 1920

For information on other authorised service centres worldwide contact Wharfedale International in the U.K.

A worldwide distributor list is available on the Wharfedale website: www.wharfedale.co.uk

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Wharfedale has a policy of continuous product development and reserves the right to change specification without notice.

Wharfedale is a member of the International Audio Group.

Wharfedale

Loudspeaker Manufacturers since 1932

In 1932, when Gilbert Briggs founded the Wharfedale Wireless Works, his company was at the leading edge of an exciting new technology which was dedicated to bringing the pleasure of music and entertainment to a wide range of people. As the technology advanced Wharfedale gave many music lovers their first taste of High Fidelity, mounting a series of live sound demonstrations which excited the audio world and heralded the era of the modern hi-fi loudspeaker.

Today Wharfedale still takes the same uncompromising approach to the design and manufacture of every loudspeaker system, using high quality components and state-of-the-art testing to ensure consistently high performance. And that means that you can continue to count on the quality of all Wharfedale products.